ELSEVIER

Applied Surface Science 217 (2003) I–III

applied surface science

www.elsevier.com/locate/apsusc

Author Index

Akiyama, K., see Watanabe, M. 217 (2003) 82
Altındal, Ş., see Karataş, Ş. 217 (2003) 250
Ashfold, M.N.R., see Henley, S.J. 217 (2003) 68

Badziak, J., see Torrisi, L. 217 (2003) 319
Balachandran, U., see Siriwardane, R.V. 217 (2003) 43
Benninger, F., see Gonin, Y. 217 (2003) 289
Bian, C., see Li, X. 217 (2003) 16
Boody, F.P., see Torrisi, L. 217 (2003) 319
Boukherroub, R., D. Zargarian, C. Reber, D.J. Lockwood, A.J. Carty and D.D.M. Wayner, Effect of ruthenium cluster on the photoluminescence of chemically derivatized porous silicon 217 (2003) 125
Bresson, F., C.-C. Chen, G.-C. Chi and Y.-W. Chen, Simplified sedimentation process for 3D photonic thick layers/bulk crystals with a stop-band in the visible range 217 (2003) 281
Brettmann, M., see Grundmeier, G. 217 (2003) 223
Brizuela, G., see Simonetti, S. 217 (2003) 56

Carty, A.J., see Boukherroub, R. 217 (2003) 125
Castro, R.H.R., see Gouvêa, D. 217 (2003) 194
Cavallotti, P.L., see Sirtori, V. 217 (2003) 163
Chang, S.-S., S. Kurokawa and A. Sakai, Properties of annealed anodically etched porous Zn studied by scanning tunneling microscopy 217 (2003) 50
Chen, C.-C., see Bresson, F. 217 (2003) 281
Chen, W., see Li, X. 217 (2003) 16
Chen, Y.H., see Zhang, Z.C. 217 (2003) 268
Chen, Y.-W., see Bresson, F. 217 (2003) 281
Chi, G.-C., see Bresson, F. 217 (2003) 281
Collado, V.M., see Fernández-Lima, F. 217 (2003) 202

da Silveira, E.F., see Fernández-Lima, F. 217 (2003) 202
Darmstadt, H., see Pantea, D. 217 (2003) 181
Dharmadhikari, C.V., see Patil, S. 217 (2003) 7
Diamandescu, L., see Sorescu, M. 217 (2003) 233
Ding, Z.H., see Tong, X.L. 217 (2003) 28
Dorris, S.E., see Siriwardane, R.V. 217 (2003) 43
Duclere, J.-R., see Gautier, B. 217 (2003) 108

Evangelakis, G.A., see Symianakis, E. 217 (2003) 239

Farenzena, L.S., see Fernández-Lima, F. 217 (2003) 202
Fernández-Lima, F., V.M. Collado, C.R. Ponciano, L.S. Farenzena, E. Pedrero and E.F. da Silveira, Laser ablation of CsI analyzed by delayed extraction 217 (2003) 202
Fisher, E.P., see Siriwardane, R.V. 217 (2003) 43
Fu, E.-G., D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao, Substrate temperature dependence of the properties of ZAO thin films deposited by magnetron sputtering 217 (2003) 88
Fu, X., see Hu, X. 217 (2003) 34

Gammino, S., see Torrisi, L. 217 (2003) 319
Gautier, B., J.-R. Duclere and M. Guilloux-Viry, Nanoscale study of the ferroelectric properties of $SrBi_2Nb_2O_9$ thin films grown by pulsed laser deposition on epitaxial Pt electrodes using atomic force microscope 217 (2003) 108
Gonin, Y., F. Munnik, F. Benninger and S. Mikhaïlov, Creating sub-surface channels in PMMA with ion beam lithography in only one step 217 (2003) 289
Gouvêa, D., and R.H.R. Castro, Sintering: the role of interface energies 217 (2003) 194
Grabias, A., see Sorescu, M. 217 (2003) 233
Gray, J.E., P.R. Norton and K. Griffiths, Surface modification of a biomedical poly(ether)-urethane by a remote air plasma 217 (2003) 210
Griffiths, K., see Gray, J.E. 217 (2003) 210
Grundmeier, G., M. Brettmann and P. Thiemann, In situ spectroscopic and corrosion studies of ultra-thin gradient plasma polymer layers on zinc 217 (2003) 223
Guilloux-Viry, M., see Gautier, B. 217 (2003) 108
Guo, T., see Hu, X. 217 (2003) 34

Hashem, K.M.E., Study of TEOS and TPOS anticorrosion coatings developed at different ranges of pyrolysis temperatures 217 (2003) 302
He, J., see Li, X. 217 (2003) 16
Henley, S.J., M.N.R. Ashfold and S.R.J. Pearce, The structure and composition of lithium fluoride films grown by off-axis pulsed laser ablation 217 (2003) 68
Hu, X., see Hu, X. 217 (2003) 34
Hu, X., T. Guo, X. Fu and X. Hu, Nanoscale oxide structures induced by dynamic electric field on Si with AFM 217 (2003) 34

Iida, T., see Watanabe, M. 217 (2003) 82
Ishikawa, T., see Watanabe, M. 217 (2003) 82

doi:10.1016/S0169-4332(03)00800-6

Isshiki, M., see Lim, J.-W. 217 (2003) 95

Juan, A., see Simonetti, S. 217 (2003) 56

Kaliaguine, S., see Pantea, D. 217 (2003) 181
Karataş, Ş., Ş. Altındal, A. Türüt and A. Özmen, Temperature dependence of characteristic parameters of the H-terminated Sn/p-Si(1 0 0) Schottky contacts 217 (2003) 250
Kim, B., K. Kim and B.T. Lee, Radio frequency bias power effect on surface roughness of silicon carbide plasma etching 217 (2003) 261
Kim, K., see Kim, B. 217 (2003) 261
Kleber, Ch., and M. Schreiner, In situ TM-AFM investigations of the influence of zinc and tin as alloy constituents of copper to the early stages of corrosion 217 (2003) 294
Knizikevičius, R., Simulation of the loading effect 217 (2003) 275
Krása, J., see Torrisi, L. 217 (2003) 319
Kreutz, E.W., see Starbova, K. 217 (2003) 118
Krumov, E., see Starbova, K. 217 (2003) 118
Kumagae, J., see Tsuji, M. 217 (2003) 134
Kurokawa, S., see Chang, S.-S. 217 (2003) 50

Ladas, S., see Symianakis, E. 217 (2003) 239
Láska, L., see Torrisi, L. 217 (2003) 319
Lee, B.T., see Kim, B. 217 (2003) 261
Lee, T.H., see Siriwardane, R.V. 217 (2003) 43
Li, J.C., see Wang, B. 217 (2003) 314
Li, X., W. Chen, C. Bian, J. He, N. Xu and G. Xue, Surface modification of TiO_2 nanoparticles by polyaniline 217 (2003) 16
Lim, J.-W., K. Mimura and M. Isshiki, Thickness dependence of resistivity for Cu films deposited by ion beam deposition 217 (2003) 95
Lin, C., see Xie, X. 217 (2003) 39
Lin, Q., see Xie, X. 217 (2003) 39
Liu, W., see Xie, X. 217 (2003) 39
Lockwood, D.J., see Boukherroub, R. 217 (2003) 125
Lombardi, L., see Sirtori, V. 217 (2003) 163

Magagnin, L., see Sirtori, V. 217 (2003) 163
Matsuzaki, T., see Tsuji, M. 217 (2003) 134
Men, C., see Xie, X. 217 (2003) 39
Mendes, M., and R. Vilar, Influence of the processing parameters on the formation and deposition of particles in UV pulsed laser ablation of Al_2O_3–TiC ceramics 217 (2003) 149
Mezzasalma, A.M., see Torrisi, L. 217 (2003) 319
Mikhaĭlov, S., see Gonin, Y. 217 (2003) 289
Mimura, K., see Lim, J.-W. 217 (2003) 95
Mori, Y., see Watanabe, M. 217 (2003) 82
Munnik, F., see Gonin, Y. 217 (2003) 289

Nakano, K., see Tsuji, M. 217 (2003) 134
Norton, P.R., see Gray, J.E. 217 (2003) 210

Özmen, A., see Karataş, Ş. 217 (2003) 250

Pantea, D., H. Darmstadt, S. Kaliaguine and C. Roy, Electrical conductivity of conductive carbon blacks: influence of surface chemistry and topology 217 (2003) 181
Parys, P., see Torrisi, L. 217 (2003) 319
Patil, S., and C.V. Dharmadhikari, Small signal amplification using parametric resonance in NcAFM imaging 217 (2003) 7
Pearce, S.R.J., see Henley, S.J. 217 (2003) 68
Pedrero, E., see Fernández-Lima, F. 217 (2003) 202
Pfeifer, M., see Torrisi, L. 217 (2003) 319
Ponciano, C.R., see Fernández-Lima, F. 217 (2003) 202
Popov, D., see Starbova, K. 217 (2003) 118
Poston Jr., J.A., see Siriwardane, R.V. 217 (2003) 43
Prasad, S.S., An intriguing photosensitized heterogeneous sink of nitrous oxide 217 (2003) 1
Pronsato, M.E., see Simonetti, S. 217 (2003) 56

Qin, Y.X., see Tong, X.L. 217 (2003) 28

Radoeva, M., see Starbova, K. 217 (2003) 118
Reber, C., see Boukherroub, R. 217 (2003) 125
Rohlena, K., see Torrisi, L. 217 (2003) 319
Roy, C., see Pantea, D. 217 (2003) 181

Sakai, A., see Chang, S.-S. 217 (2003) 50
Sawabe, K., see Watanabe, M. 217 (2003) 82
Schlaghecken, G., see Starbova, K. 217 (2003) 118
Schreiner, M., see Kleber, Ch. 217 (2003) 294
Shen, W.Z., see Wang, K. 217 (2003) 100
Shobatake, K., see Watanabe, M. 217 (2003) 82
Simonetti, S., M.E. Pronsato, G. Brizuela and A. Juan, The electronic effect of carbon and hydrogen in an $(1\bar{1}1)$ edge dislocation core system in bcc iron 217 (2003) 56
Siriwardane, R.V., J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran, Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium 217 (2003) 43
Sirtori, V., L. Lombardi, P.L. Cavallotti and L. Magagnin, Determination of correct composition in nickel–phosphorus films by XPS angle resolved technique 217 (2003) 163
Song, X.M., see Wang, B. 217 (2003) 314
Sorescu, M., A. Grabias, D. Tarabasanu-Mihaila and L. Diamandescu, Bulk versus surface effects in magnetic thin films obtained by pulsed laser deposition 217 (2003) 233
Starbov, N., see Starbova, K. 217 (2003) 118
Starbova, K., E. Krumov, M. Radoeva, N. Starbov, D. Popov, G. Schlaghecken and E.W. Kreutz, Laser assisted surface microstructuring of Me/ZrO_2 bilayered thin film system 217 (2003) 118
Sun, X., Microstructure studies on hexagonal layered Ni-S nanocrystals 217 (2003) 23
Symianakis, E., S. Ladas and G.A. Evangelakis, Ni/NiO(0 0 1) interface studied by X-ray

photoelectron spectroscopy and molecular dynamics simulations 217 (2003) 239

Tarabasanu-Mihaila, D., see Sorescu, M. 217 (2003) 233
Thiemann, P., see Grundmeier, G. 217 (2003) 223
Tong, X.L., Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding, Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition 217 (2003) 28
Torrisi, L., S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wolowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody, Implantation of ions produced by the use of high power iodine laser 217 (2003) 319
Tsuji, M., J. Kumagae, K. Nakano, T. Matsuzaki and T. Tsuji, Decomposition of N_2O in a microwave-absorbent assisted discharge of N_2 at atmospheric pressure 217 (2003) 134
Tsuji, T., see Tsuji, M. 217 (2003) 134
Türüt, A., see Karataş, Ş. 217 (2003) 250

Vilar, R., see Mendes, M. 217 (2003) 149

Wan, Q., see Xie, X. 217 (2003) 39
Wang, B., Q. Zhao, J.C. Li, B.B. Wang, X.M. Song, X.D. Yang, H. Yan and M. Wang, Nanosized β-SiC films prepared by a Cat-CVD with negative bias at low substrate temperature 217 (2003) 314
Wang, B.B., see Wang, B. 217 (2003) 314
Wang, C., see Xue, C. 217 (2003) 78
Wang, K., W.Z. Shen and H.F. Yang, Capacitance characteristics in PbSrSe thin films 217 (2003) 100
Wang, M., see Wang, B. 217 (2003) 314
Wang, Z.G., see Zhang, Z.C. 217 (2003) 268
Watanabe, M., Y. Mori, T. Ishikawa, T. Iida, K. Akiyama, K. Sawabe and K. Shobatake, X-ray photoelectron spectroscopy of polycrystalline AlN surface exposed to the reactive environment of XeF_2 217 (2003) 82
Wayner, D.D.M., see Boukherroub, R. 217 (2003) 125
Wolowski, J., see Torrisi, L. 217 (2003) 319
Woryna, E., see Torrisi, L. 217 (2003) 319

Xi, Z.J., see Tong, X.L. 217 (2003) 28
Xie, C.S., see Zeng, D.W. 217 (2003) 170
Xie, X., Q. Wan, W. Liu, C. Men, Q. Lin and C. Lin, Nanoscale silicon prepared on different substrates using electron-beam evaporation and their field-emission property 217 (2003) 39
Xu, B., see Zhang, Z.C. 217 (2003) 268
Xu, N., see Li, X. 217 (2003) 16
Xue, C., L. Yang, C. Wang and H. Zhuang, Growth of GaN nanowires through nitridation Ga_2O_3 films deposited by electrophoresis 217 (2003) 78
Xue, G., see Li, X. 217 (2003) 16

Yan, H., see Wang, B. 217 (2003) 314
Yang, H.F., see Wang, K. 217 (2003) 100
Yang, L., see Xue, C. 217 (2003) 78
Yang, S.Y., see Zhang, Z.C. 217 (2003) 268
Yang, W.-F., see Fu, E.-G. 217 (2003) 88
Yang, X.D., see Wang, B. 217 (2003) 314
Yu, B.H., see Tong, X.L. 217 (2003) 28
Yung, K.C., see Zeng, D.W. 217 (2003) 170

Zargarian, D., see Boukherroub, R. 217 (2003) 125
Zeng, D.W., K.C. Yung and C.S. Xie, UV Nd:YAG laser ablation of copper: chemical states in both crater and halo studied by XPS 217 (2003) 170
Zeng, Y.P., see Zhang, Z.C. 217 (2003) 268
Zhang, F.Q., see Zhang, Z.C. 217 (2003) 268
Zhang, G., see Fu, E.-G. 217 (2003) 88
Zhang, Z.C., S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang, $In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate 217 (2003) 268
Zhao, M., see Fu, E.-G. 217 (2003) 88
Zhao, Q., see Wang, B. 217 (2003) 314
Zheng, Q.G., see Tong, X.L. 217 (2003) 28
Zhuang, D.-M., see Fu, E.-G. 217 (2003) 88
Zhuang, H., see Xue, C. 217 (2003) 78

ELSEVIER

Applied Surface Science 217 (2003) IV–XIV

applied surface science

www.elsevier.com/locate/apsusc

Subject Index

Ablation

The structure and composition of lithium fluoride films grown by off-axis pulsed laser ablation, S.J. Henley, M.N.R. Ashfold and S.R.J. Pearce 217 (2003) 68

Influence of the processing parameters on the formation and deposition of particles in UV pulsed laser ablation of Al_2O_3–TiC ceramics, M. Mendes and R. Vilar 217 (2003) 149

UV Nd:YAG laser ablation of copper: chemical states in both crater and halo studied by XPS, D.W. Zeng, K.C. Yung and C.S. Xie 217 (2003) 170

Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wolowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Alloys

In situ TM-AFM investigations of the influence of zinc and tin as alloy constituents of copper to the early stages of corrosion, Ch. Kleber and M. Schreiner 217 (2003) 294

Aluminium

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28

X-ray photoelectron spectroscopy of polycrystalline AlN surface exposed to the reactive environment of XeF_2, M. Watanabe, Y. Mori, T. Ishikawa, T. Iida, K. Akiyama, K. Sawabe and K. Shobatake 217 (2003) 82

Substrate temperature dependence of the properties of ZAO thin films deposited by magnetron sputtering, E.-G. Fu, D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao 217 (2003) 88

$In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate, Z.C. Zhang, S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang 217 (2003) 268

Aluminium oxide

Influence of the processing parameters on the formation and deposition of particles in UV pulsed laser ablation of Al_2O_3–TiC ceramics, M. Mendes and R. Vilar 217 (2003) 149

Aluminium titanium

Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wolowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Annealing

Properties of annealed anodically etched porous Zn studied by scanning tunneling microscopy, S.-S. Chang, S. Kurokawa and A. Sakai 217 (2003) 50

Atomic force microscopy

Nanoscale oxide structures induced by dynamic electric field on Si with AFM, X. Hu, T. Guo, X. Fu and X. Hu 217 (2003) 34

Substrate temperature dependence of the properties of ZAO thin films deposited by magnetron sputtering, E.-G. Fu, D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao 217 (2003) 88

Nanoscale study of the ferroelectric properties of $SrBi_2Nb_2O_9$ thin films grown by pulsed laser deposition on epitaxial Pt electrodes using atomic force microscope, B. Gautier, J.-R. Duclere and M. Guilloux-Viry 217 (2003) 108

Influence of the processing parameters on the formation and deposition of particles in UV pulsed laser ablation of Al_2O_3–TiC ceramics, M. Mendes and R. Vilar 217 (2003) 149

doi:10.1016/S0169-4332(03)00801-8

Surface modification of a biomedical poly (ether)urethane by a remote air plasma, J.E. Gray, P.R. Norton and K. Griffiths 217 (2003) 210
Radio frequency bias power effect on surface roughness of silicon carbide plasma etching, B. Kim, K. Kim and B.T. Lee 217 (2003) 261
$In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate, Z.C. Zhang, S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang 217 (2003) 268
Simplified sedimentation process for 3D photonic thick layers/bulk crystals with a stopband in the visible range, F.V. Bresson, C.-C. Chen, G.-C. Chi and Y.-W. Chen 217 (2003) 281
In situ TM-AFM investigations of the influence of zinc and tin as alloy constituents of copper to the early stages of corrosion, Ch. Kleber and M. Schreiner 217 (2003) 294
Nanosized β-SiC films prepared by a Cat-CVD with negative bias at low substrate temperature, B. Wang, Q. Zhao, J.C. Li, B.B. Wang, X.M. Song, X.D. Yang, H. Yan and M. Wang 217 (2003) 314

Auger electron spectroscopy

X-ray photoelectron spectroscopy of polycrystalline AlN surface exposed to the reactive environment of XeF_2, M. Watanabe, Y. Mori, T. Ishikawa, T. Iida, K. Akiyama, K. Sawabe and K. Shobatake 217 (2003) 82

Barium

Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43

Bismuth

Nanoscale study of the ferroelectric properties of $SrBi_2Nb_2O_9$ thin films grown by pulsed laser deposition on epitaxial Pt electrodes using atomic force microscope, B. Gautier, J.-R. Duclere and M. Guilloux-Viry 217 (2003) 108

Carbon

The electronic effect of carbon and hydrogen in an (1 $\bar{1}$ 1) edge dislocation core system in bcc iron, S. Simonetti, M.E. Pronsato, G. Brizuela and A. Juan 217 (2003) 56
Electrical conductivity of conductive carbon blacks: influence of surface chemistry and topology, D. Pantea, H. Darmstadt, S. Kaliaguine and C. Roy 217 (2003) 181

Carbon silicon

Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wolowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Ceramics

Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43

Cerium

Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43

Chemical vapour deposition

Nanosized β-SiC films prepared by a Cat-CVD with negative bias at low substrate temperature, B. Wang, Q. Zhao, J.C. Li, B.B. Wang, X.M. Song, X.D. Yang, H. Yan and M. Wang 217 (2003) 314

Chromium

Bulk versus surface effects in magnetic thin films obtained by pulsed laser deposition, M. Sorescu, A. Grabias, D. Tarabasanu-Mihaila and L. Diamandescu 217 (2003) 233

Cluster

Effect of ruthenium cluster on the photoluminescence of chemically derivatized porous silicon, R. Boukherroub, D. Zargarian, C. Reber, D.J. Lockwood, A.J. Carty and D.D.M. Wayner 217 (2003) 125

Cobalt

Bulk versus surface effects in magnetic thin films obtained by pulsed laser deposition,

M. Sorescu, A. Grabias, D. Tarabasanu-Mihaila and L. Diamandescu 217 (2003) 233

Computer simulations

The electronic effect of carbon and hydrogen in an (1 $\bar{1}$ 1) edge dislocation core system in bcc iron, S. Simonetti, M.E. Pronsato, G. Brizuela and A. Juan 217 (2003) 56

Copper

Thickness dependence of resistivity for Cu films deposited by ion beam deposition, J.-W. Lim, K. Mimura and M. Isshiki 217 (2003) 95
UV Nd:YAG laser ablation of copper: chemical states in both crater and halo studied by XPS, D.W. Zeng, K.C. Yung and C.S. Xie 217 (2003) 170
In situ TM-AFM investigations of the influence of zinc and tin as alloy constituents of copper to the early stages of corrosion, Ch. Kleber and M. Schreiner 217 (2003) 294

Copper silver tantulum

Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wolowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Corrosion

X-ray photoelectron spectroscopy of polycrystalline AlN surface exposed to the reactive environment of XeF_2, M. Watanabe, Y. Mori, T. Ishikawa, T. Iida, K. Akiyama, K. Sawabe and K. Shobatake 217 (2003) 82
In situ spectroscopic and corrosion studies of ultra-thin gradient plasma polymer layers on zinc, G. Grundmeier, M. Brettmann and P. Thiemann 217 (2003) 223
In situ TM-AFM investigations of the influence of zinc and tin as alloy constituents of copper to the early stages of corrosion, Ch. Kleber and M. Schreiner 217 (2003) 294
Study of TEOS and TPOS anticorrosion coatings developed at different ranges of pyrolysis temperatures, K.M.E. Hashem 217 (2003) 302

Depth profiling

In situ spectroscopic and corrosion studies of ultra-thin gradient plasma polymer layers on zinc, G. Grundmeier, M. Brettmann and P. Thiemann 217 (2003) 223

Electrical properties

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28
Substrate temperature dependence of the properties of ZAO thin films deposited by magnetron sputtering, E.-G. Fu, D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao 217 (2003) 88
Thickness dependence of resistivity for Cu films deposited by ion beam deposition, J.-W. Lim, K. Mimura and M. Isshiki 217 (2003) 95
Capacitance characteristics in PbSrSe thin films, K. Wang, W.Z. Shen and H.F. Yang 217 (2003) 100
Electrical conductivity of conductive carbon blacks: influence of surface chemistry and topology, D. Pantea, H. Darmstadt, S. Kaliaguine and C. Roy 217 (2003) 181
Temperature dependence of characteristic parameters of the H-terminated Sn/p-Si(1 0 0) Schottky contacts, Ş. Karataş, Ş. Altındal, A. Türüt and A. Özmen 217 (2003) 250

Electron diffraction

Microstructure studies on hexagonal layered Ni-S nanocrystals, X. Sun 217 (2003) 23
The structure and composition of lithium fluoride films grown by off-axis pulsed laser ablation, S.J. Henley, M.N.R. Ashfold and S.R.J. Pearce 217 (2003) 68
$In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate, Z.C. Zhang, S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang 217 (2003) 268

Electron microscopy

Surface modification of TiO_2 nanoparticles by polyaniline, X. Li, W. Chen, C. Bian, J. He, N. Xu and G. Xue 217 (2003) 16
Microstructure studies on hexagonal layered Ni-S nanocrystals, X. Sun 217 (2003) 23
Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43
The structure and composition of lithium fluoride films grown by off-axis pulsed laser ablation, S.J. Henley, M.N.R. Ashfold and S.R.J. Pearce 217 (2003) 68

Growth of GaN nanowires through nitridation Ga_2O_3 films deposited by electrophoresis, C. Xue, L. Yang, C. Wang and H. Zhuang 217 (2003) 78
X-ray photoelectron spectroscopy of polycrystalline AlN surface exposed to the reactive environment of XeF_2, M. Watanabe, Y. Mori, T. Ishikawa, T. Iida, K. Akiyama, K. Sawabe and K. Shobatake 217 (2003) 82
Laser assisted surface microstructuring of Me/ZrO_2 bilayered thin film system, K. Starbova, E. Krumov, M. Radoeva, N. Starbov, D. Popov, G. Schlaghecken and E.W. Kreutz 217 (2003) 118
Effect of ruthenium cluster on the photoluminescence of chemically derivatized porous silicon, R. Boukherroub, D. Zargarian, C. Reber, D.J. Lockwood, A.J. Carty and D.D.M. Wayner 217 (2003) 125
Influence of the processing parameters on the formation and deposition of particles in UV pulsed laser ablation of Al_2O_3–TiC ceramics, M. Mendes and R. Vilar 217 (2003) 149
UV Nd:YAG laser ablation of copper: chemical states in both crater and halo studied by XPS, D.W. Zeng, K.C. Yung and C.S. Xie 217 (2003) 170
Simplified sedimentation process for 3D photonic thick layers/bulk crystals with a stop-band in the visible range, F.V. Bresson, C.-C. Chen, G.-C. Chi and Y.-W. Chen 217 (2003) 281
Study of TEOS and TPOS anticorrosion coatings developed at different ranges of pyrolysis temperatures, K.M.E. Hashem 217 (2003) 302

Etching

Radio frequency bias power effect on surface roughness of silicon carbide plasma etching, B. Kim, K. Kim and B.T. Lee 217 (2003) 261
Simulation of the loading effect, R. Knizikevičius 217 (2003) 275

Gallium

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28

Gallium arsenide

$In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate, Z.C. Zhang, S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang 217 (2003) 268

Halogenides

The structure and composition of lithium fluoride films grown by off-axis pulsed laser ablation, S.J. Henley, M.N.R. Ashfold and S.R.J. Pearce 217 (2003) 68
X-ray photoelectron spectroscopy of polycrystalline AlN surface exposed to the reactive environment of XeF_2, M. Watanabe, Y. Mori, T. Ishikawa, T. Iida, K. Akiyama, K. Sawabe and K. Shobatake 217 (2003) 82
Simulation of the loading effect, R. Knizikevičius 217 (2003) 275

Hydrogen

Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43
The electronic effect of carbon and hydrogen in an (1 $\bar{1}$ 1) edge dislocation core system in bcc iron, S. Simonetti, M.E. Pronsato, G. Brizuela and A. Juan 217 (2003) 56
Temperature dependence of characteristic parameters of the H-terminated Sn/p-Si(1 0 0) Schottky contacts, Ş. Karataş, Ş. Altındal, A. Türüt and A. Özmen 217 (2003) 250

Indium

$In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate, Z.C. Zhang, S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang 217 (2003) 268

Infrared spectroscopy

Surface modification of TiO_2 nanoparticles by polyaniline, X. Li, W. Chen, C. Bian, J. He, N. Xu and G. Xue 217 (2003) 16
In situ spectroscopic and corrosion studies of ultra-thin gradient plasma polymer layers on zinc, G. Grundmeier, M. Brettmann and P. Thiemann 217 (2003) 223
Nanosized β-SiC films prepared by a Cat-CVD with negative bias at low substrate temperature, B. Wang, Q. Zhao, J.C. Li, B.B. Wang, X.M. Song, X.D. Yang, H. Yan and M. Wang 217 (2003) 314

Interfaces

Sintering: the role of interface energies, D. Gouvêa and R.H.R. Castro 217 (2003) 194

Ni/NiO(0 0 1) interface studied by X-ray photoelectron spectroscopy and molecular dynamics simulations, E. Symianakis, S. Ladas and G.A. Evangelakis 217 (2003) 239
$In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate, Z.C. Zhang, S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang 217 (2003) 268

Ion bombardment

Nanosized β-SiC films prepared by a Cat-CVD with negative bias at low substrate temperature, B. Wang, Q. Zhao, J.C. Li, B.B. Wang, X.M. Song, X.D. Yang, H. Yan and M. Wang 217 (2003) 314

Ion implantation

Determination of correct composition in nickel–phosphorus films by XPS angle resolved technique, V. Sirtori, L. Lombardi, P.L. Cavallotti and L. Magagnin 217 (2003) 163
Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wołowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Ion scattering

Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wołowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Iron

The electronic effect of carbon and hydrogen in an $(1\ \bar{1}\ 1)$ edge dislocation core system in bcc iron, S. Simonetti, M.E. Pronsato, G. Brizuela and A. Juan 217 (2003) 56
Bulk versus surface effects in magnetic thin films obtained by pulsed laser deposition, M. Sorescu, A. Grabias, D. Tarabasanu-Mihaila and L. Diamandescu 217 (2003) 233

Laser ablation

Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wołowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Laser processing

Laser assisted surface microstructuring of Me/ZrO_2 bilayered thin film system, K. Starbova, E. Krumov, M. Radoeva, N. Starbov, D. Popov, G. Schlaghecken and E.W. Kreutz 217 (2003) 118
UV Nd:YAG laser ablation of copper: chemical states in both crater and halo studied by XPS, D.W. Zeng, K.C. Yung and C.S. Xie 217 (2003) 170
Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wołowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Lead

Capacitance characteristics in PbSrSe thin films, K. Wang, W.Z. Shen and H.F. Yang 217 (2003) 100

Lithium

The structure and composition of lithium fluoride films grown by off-axis pulsed laser ablation, S.J. Henley, M.N.R. Ashfold and S.R.J. Pearce 217 (2003) 68

Luminescence

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28
Properties of annealed anodically etched porous Zn studied by scanning tunneling microscopy, S.-S. Chang, S. Kurokawa and A. Sakai 217 (2003) 50
Effect of ruthenium cluster on the photoluminescence of chemically derivatized porous silicon, R. Boukherroub, D. Zargarian, C. Reber, D.J. Lockwood, A.J. Carty and D.D.M. Wayner 217 (2003) 125
$In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate, Z.C. Zhang, S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang 217 (2003) 268

Mössbauer spectroscopy

Bulk versus surface effects in magnetic thin films obtained by pulsed laser deposition,

M. Sorescu, A. Grabias, D. Tarabasanu-Mihaila and L. Diamandescu 217 (2003) 233

Metals

Laser assisted surface microstructuring of Me/ZrO_2 bilayered thin film system, K. Starbova, E. Krumov, M. Radoeva, N. Starbov, D. Popov, G. Schlaghecken and E.W. Kreutz 217 (2003) 118

Molecular beam epitaxy

$In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate, Z.C. Zhang, S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang 217 (2003) 268

Molecular dynamics

Ni/NiO(0 0 1) interface studied by X-ray photoelectron spectroscopy and molecular dynamics simulations, E. Symianakis, S. Ladas and G.A. Evangelakis 217 (2003) 239

Nanostructures

Surface modification of TiO_2 nanoparticles by polyaniline, X. Li, W. Chen, C. Bian, J. He, N. Xu and G. Xue 217 (2003) 16

Microstructure studies on hexagonal layered Ni-S nanocrystals, X. Sun 217 (2003) 23

Nanoscale oxide structures induced by dynamic electric field on Si with AFM, X. Hu, T. Guo, X. Fu and X. Hu 217 (2003) 34

Growth of GaN nanowires through nitridation Ga_2O_3 films deposited by electrophoresis, C. Xue, L. Yang, C. Wang and H. Zhuang 217 (2003) 78

Simplified sedimentation process for 3D photonic thick layers/bulk crystals with a stop-band in the visible range, F.V. Bresson, C.-C. Chen, G.-C. Chi and Y.-W. Chen 217 (2003) 281

Nickel

Microstructure studies on hexagonal layered Ni-S nanocrystals, X. Sun 217 (2003) 23

Determination of correct composition in nickel–phosphorus films by XPS angle resolved technique, V. Sirtori, L. Lombardi, P.L. Cavallotti and L. Magagnin 217 (2003) 163

Ni/NiO(0 0 1) interface studied by X-ray photoelectron spectroscopy and molecular dynamics simulations, E. Symianakis, S. Ladas and G.A. Evangelakis 217 (2003) 239

Niobium

Nanoscale study of the ferroelectric properties of $SrBi_2Nb_2O_9$ thin films grown by pulsed laser deposition on epitaxial Pt electrodes using atomic force microscope, B. Gautier, J.-R. Duclere and M. Guilloux-Viry 217 (2003) 108

Nitrides

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28

X-ray photoelectron spectroscopy of polycrystalline AlN surface exposed to the reactive environment of XeF_2, M. Watanabe, Y. Mori, T. Ishikawa, T. Iida, K. Akiyama, K. Sawabe and K. Shobatake 217 (2003) 82

Nitrogen

Decomposition of N_2O in a microwave-absorbent assisted discharge of N_2 at atmospheric pressure, M. Tsuji, J. Kumagae, K. Nakano, T. Matsuzaki and T. Tsuji 217 (2003) 134

Nitrogen oxide

Decomposition of N_2O in a microwave-absorbent assisted discharge of N_2 at atmospheric pressure, M. Tsuji, J. Kumagae, K. Nakano, T. Matsuzaki and T. Tsuji 217 (2003) 134

Optical properties

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28

Substrate temperature dependence of the properties of ZAO thin films deposited by magnetron sputtering, E.-G. Fu, D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao 217 (2003) 88

Simplified sedimentation process for 3D photonic thick layers/bulk crystals with a stop-band in the visible range, F.V. Bresson, C.-C. Chen, G.-C. Chi and Y.-W. Chen 217 (2003) 281

Oxides

Nanoscale oxide structures induced by dynamic electric field on Si with AFM, X. Hu, T. Guo, X. Fu and X. Hu 217 (2003) 34

Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43
Substrate temperature dependence of the properties of ZAO thin films deposited by magnetron sputtering, E.-G. Fu, D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao 217 (2003) 88
Nanoscale study of the ferroelectric properties of $SrBi_2Nb_2O_9$ thin films grown by pulsed laser deposition on epitaxial Pt electrodes using atomic force microscope, B. Gautier, J.-R. Duclere and M. Guilloux-Viry 217 (2003) 108
Laser assisted surface microstructuring of Me/ZrO_2 bilayered thin film system, K. Starbova, E. Krumov, M. Radoeva, N. Starbov, D. Popov, G. Schlaghecken and E.W. Kreutz 217 (2003) 118
Bulk versus surface effects in magnetic thin films obtained by pulsed laser deposition, M. Sorescu, A. Grabias, D. Tarabasanu-Mihaila and L. Diamandescu 217 (2003) 233
Ni/NiO(0 0 1) interface studied by X-ray photoelectron spectroscopy and molecular dynamics simulations, E. Symianakis, S. Ladas and G.A. Evangelakis 217 (2003) 239

Oxygen

Simulation of the loading effect, R. Knizikevičius 217 (2003) 275

Palladium

Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43

Phosphorus

Determination of correct composition in nickel–phosphorus films by XPS angle resolved technique, V. Sirtori, L. Lombardi, P.L. Cavallotti and L. Magagnin 217 (2003) 163

Photoelectron spectroscopy

Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43
X-ray photoelectron spectroscopy of polycrystalline AlN surface exposed to the reactive environment of XeF_2, M. Watanabe, Y. Mori, T. Ishikawa, T. Iida, K. Akiyama, K. Sawabe and K. Shobatake 217 (2003) 82
Effect of ruthenium cluster on the photoluminescence of chemically derivatized porous silicon, R. Boukherroub, D. Zargarian, C. Reber, D.J. Lockwood, A.J. Carty and D.D.M. Wayner 217 (2003) 125
Determination of correct composition in nickel–phosphorus films by XPS angle resolved technique, V. Sirtori, L. Lombardi, P.L. Cavallotti and L. Magagnin 217 (2003) 163
UV Nd:YAG laser ablation of copper: chemical states in both crater and halo studied by XPS, D.W. Zeng, K.C. Yung and C.S. Xie 217 (2003) 170
Electrical conductivity of conductive carbon blacks: influence of surface chemistry and topology, D. Pantea, H. Darmstadt, S. Kaliaguine and C. Roy 217 (2003) 181
Surface modification of a biomedical poly (ether)urethane by a remote air plasma, J.E. Gray, P.R. Norton and K. Griffiths 217 (2003) 210
In situ spectroscopic and corrosion studies of ultra-thin gradient plasma polymer layers on zinc, G. Grundmeier, M. Brettmann and P. Thiemann 217 (2003) 223
Ni/NiO(0 0 1) interface studied by X-ray photoelectron spectroscopy and molecular dynamics simulations, E. Symianakis, S. Ladas and G.A. Evangelakis 217 (2003) 239

Photovoltaic effects

Nanoscale study of the ferroelectric properties of $SrBi_2Nb_2O_9$ thin films grown by pulsed laser deposition on epitaxial Pt electrodes using atomic force microscope, B. Gautier, J.-R. Duclere and M. Guilloux-Viry 217 (2003) 108

Plasma processing

X-ray photoelectron spectroscopy of polycrystalline AlN surface exposed to the reactive environment of XeF_2, M. Watanabe, Y. Mori, T. Ishikawa, T. Iida, K. Akiyama, K. Sawabe and K. Shobatake 217 (2003) 82
Surface modification of a biomedical poly (ether)urethane by a remote air plasma, J.E. Gray, P.R. Norton and K. Griffiths 217 (2003) 210
In situ spectroscopic and corrosion studies of ultra-thin gradient plasma polymer layers on zinc, G. Grundmeier, M. Brettmann and P. Thiemann 217 (2003) 223

Radio frequency bias power effect on surface roughness of silicon carbide plasma etching, B. Kim, K. Kim and B.T. Lee 217 (2003) 261
Simulation of the loading effect, R. Knizikevičius 217 (2003) 275

Plasma-laser

Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wolowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Polymers

Surface modification of a biomedical poly (ether)urethane by a remote air plasma, J.E. Gray, P.R. Norton and K. Griffiths 217 (2003) 210

Polymers zinc

In situ spectroscopic and corrosion studies of ultra-thin gradient plasma polymer layers on zinc, G. Grundmeier, M. Brettmann and P. Thiemann 217 (2003) 223

Pulsed laser deposition

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28
The structure and composition of lithium fluoride films grown by off-axis pulsed laser ablation, S.J. Henley, M.N.R. Ashfold and S.R.J. Pearce 217 (2003) 68
Nanoscale study of the ferroelectric properties of $SrBi_2Nb_2O_9$ thin films grown by pulsed laser deposition on epitaxial Pt electrodes using atomic force microscope, B. Gautier, J.-R. Duclere and M. Guilloux-Viry 217 (2003) 108
Influence of the processing parameters on the formation and deposition of particles in UV pulsed laser ablation of Al_2O_3–TiC ceramics, M. Mendes and R. Vilar 217 (2003) 149
Bulk versus surface effects in magnetic thin films obtained by pulsed laser deposition, M. Sorescu, A. Grabias, D. Tarabasanu-Mihaila and L. Diamandescu 217 (2003) 233

Raman scattering

Surface modification of TiO_2 nanoparticles by polyaniline, X. Li, W. Chen, C. Bian, J. He, N. Xu and G. Xue 217 (2003) 16
Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28

Ruthenium

Effect of ruthenium cluster on the photoluminescence of chemically derivatized porous silicon, R. Boukherroub, D. Zargarian, C. Reber, D.J. Lockwood, A.J. Carty and D.D.M. Wayner 217 (2003) 125

Scanning tunneling microscopy

Properties of annealed anodically etched porous Zn studied by scanning tunneling microscopy, S.-S. Chang, S. Kurokawa and A. Sakai 217 (2003) 50

Scanning tunneling spectroscopy

Properties of annealed anodically etched porous Zn studied by scanning tunneling microscopy, S.-S. Chang, S. Kurokawa and A. Sakai 217 (2003) 50

Schottky barriers

Temperature dependence of characteristic parameters of the H-terminated Sn/p-Si(1 0 0) Schottky contacts, Ş. Karataş, Ş. Altındal, A. Türüt and A. Özmen 217 (2003) 250

Secondary ion mass spectroscopy

Electrical conductivity of conductive carbon blacks: influence of surface chemistry and topology, D. Pantea, H. Darmstadt, S. Kaliaguine and C. Roy 217 (2003) 181

Selenium

Capacitance characteristics in PbSrSe thin films, K. Wang, W.Z. Shen and H.F. Yang 217 (2003) 100

Silane

Study of TEOS and TPOS anticorrosion coatings developed at different ranges of pyrolysis temperatures, K.M.E. Hashem 217 (2003) 302

Silicon

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed

laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28
Nanoscale oxide structures induced by dynamic electric field on Si with AFM, X. Hu, T. Guo, X. Fu and X. Hu 217 (2003) 34
Effect of ruthenium cluster on the photoluminescence of chemically derivatized porous silicon, R. Boukherroub, D. Zargarian, C. Reber, D.J. Lockwood, A.J. Carty and D.D.M. Wayner 217 (2003) 125
Temperature dependence of characteristic parameters of the H-terminated Sn/p-Si(1 0 0) Schottky contacts, Ş. Karataş, Ş. Altındal, A. Türüt and A. Özmen 217 (2003) 250
Simulation of the loading effect, R. Knizikevičius 217 (2003) 275
Study of TEOS and TPOS anticorrosion coatings developed at different ranges of pyrolysis temperatures, K.M.E. Hashem 217 (2003) 302

Silicon carbide

Radio frequency bias power effect on surface roughness of silicon carbide plasma etching, B. Kim, K. Kim and B.T. Lee 217 (2003) 261
Nanosized β-SiC films prepared by a Cat-CVD with negative bias at low substrate temperature, B. Wang, Q. Zhao, J.C. Li, B.B. Wang, X.M. Song, X.D. Yang, H. Yan and M. Wang 217 (2003) 314

Sputter deposition

Substrate temperature dependence of the properties of ZAO thin films deposited by magnetron sputtering, E.-G. Fu, D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao 217 (2003) 88
Thickness dependence of resistivity for Cu films deposited by ion beam deposition, J.-W. Lim, K. Mimura and M. Isshiki 217 (2003) 95

Sputtering

Determination of correct composition in nickel–phosphorus films by XPS angle resolved technique, V. Sirtori, L. Lombardi, P.L. Cavallotti and L. Magagnin 217 (2003) 163

Steel

Study of TEOS and TPOS anticorrosion coatings developed at different ranges of pyrolysis temperatures, K.M.E. Hashem 217 (2003) 302

Strontium

Capacitance characteristics in PbSrSe thin films, K. Wang, W.Z. Shen and H.F. Yang 217 (2003) 100
Nanoscale study of the ferroelectric properties of $SrBi_2Nb_2O_9$ thin films grown by pulsed laser deposition on epitaxial Pt electrodes using atomic force microscope, B. Gautier, J.-R. Duclere and M. Guilloux-Viry 217 (2003) 108

Sulphides

Microstructure studies on hexagonal layered Ni-S nanocrystals, X. Sun 217 (2003) 23

Super lattices

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28

Surface roughness

Radio frequency bias power effect on surface roughness of silicon carbide plasma etching, B. Kim, K. Kim and B.T. Lee 217 (2003) 261

Thin films

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28
The structure and composition of lithium fluoride films grown by off-axis pulsed laser ablation, S.J. Henley, M.N.R. Ashfold and S.R.J. Pearce 217 (2003) 68
Substrate temperature dependence of the properties of ZAO thin films deposited by magnetron sputtering, E.-G. Fu, D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao 217 (2003) 88
Thickness dependence of resistivity for Cu films deposited by ion beam deposition, J.-W. Lim, K. Mimura and M. Isshiki 217 (2003) 95
Capacitance characteristics in PbSrSe thin films, K. Wang, W.Z. Shen and H.F. Yang 217 (2003) 100
Nanoscale study of the ferroelectric properties of $SrBi_2Nb_2O_9$ thin films grown by pulsed laser deposition on epitaxial Pt electrodes using atomic force microscope, B. Gautier, J.-R. Duclere and M. Guilloux-Viry 217 (2003) 108
Bulk versus surface effects in magnetic thin films obtained by pulsed laser deposition, M. Sorescu, A. Grabias, D. Tarabasanu-Mihaila and L. Diamandescu 217 (2003) 233
Nanosized β-SiC films prepared by a Cat-CVD with negative bias at low substrate temperature, B. Wang, Q. Zhao, J.C. Li, B.B. Wang,

X.M. Song, X.D. Yang, H. Yan and M. Wang 217 (2003) 314

Thin films ceramics

Influence of the processing parameters on the formation and deposition of particles in UV pulsed laser ablation of Al_2O_3–TiC ceramics, M. Mendes and R. Vilar 217 (2003) 149

Time-of-flight techniques

Implantation of ions produced by the use of high power iodine laser, L. Torrisi, S. Gammino, A.M. Mezzasalma, J. Badziak, P. Parys, J. Wolowski, E. Woryna, J. Krása, L. Láska, M. Pfeifer, K. Rohlena and F.P. Boody 217 (2003) 319

Tin

Temperature dependence of characteristic parameters of the H-terminated Sn/p-Si(1 0 0) Schottky contacts, Ş. Karataş, Ş. Altındal, A. Türüt and A. Özmen 217 (2003) 250

In situ TM-AFM investigations of the influence of zinc and tin as alloy constituents of copper to the early stages of corrosion, Ch. Kleber and M. Schreiner 217 (2003) 294

Titanium carbide

Influence of the processing parameters on the formation and deposition of particles in UV pulsed laser ablation of Al_2O_3–TiC ceramics, M. Mendes and R. Vilar 217 (2003) 149

Titanium oxide

Surface modification of TiO_2 nanoparticles by polyaniline, X. Li, W. Chen, C. Bian, J. He, N. Xu and G. Xue 217 (2003) 16

X-ray diffraction

Surface modification of TiO_2 nanoparticles by polyaniline, X. Li, W. Chen, C. Bian, J. He, N. Xu and G. Xue 217 (2003) 16

Microstructure studies on hexagonal layered Ni-S nanocrystals, X. Sun 217 (2003) 23

Optical and electrical properties of GaN/AlN superlattices grown on Si(1 1 1) substrate by pulsed laser deposition, X.L. Tong, Q.G. Zheng, Y.X. Qin, B.H. Yu, Z.J. Xi and Z.H. Ding 217 (2003) 28

The structure and composition of lithium fluoride films grown by off-axis pulsed laser ablation, S.J. Henley, M.N.R. Ashfold and S.R.J. Pearce 217 (2003) 68

Substrate temperature dependence of the properties of ZAO thin films deposited by magnetron sputtering, E.-G. Fu, D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao 217 (2003) 88

Determination of correct composition in nickel–phosphorus films by XPS angle resolved technique, V. Sirtori, L. Lombardi, P.L. Cavallotti and L. Magagnin 217 (2003) 163

Bulk versus surface effects in magnetic thin films obtained by pulsed laser deposition, M. Sorescu, A. Grabias, D. Tarabasanu-Mihaila and L. Diamandescu 217 (2003) 233

$In_{0.25}Ga_{0.75}As$ films growth on the thin GaAs/AlAs buffer layer on the GaAs(0 0 1) substrate, Z.C. Zhang, S.Y. Yang, F.Q. Zhang, B. Xu, Y.P. Zeng, Y.H. Chen and Z.G. Wang 217 (2003) 268

Study of TEOS and TPOS anticorrosion coatings developed at different ranges of pyrolysis temperatures, K.M.E. Hashem 217 (2003) 302

Nanosized β-SiC films prepared by a Cat-CVD with negative bias at low substrate temperature, B. Wang, Q. Zhao, J.C. Li, B.B. Wang, X.M. Song, X.D. Yang, H. Yan and M. Wang 217 (2003) 314

X-ray spectroscopy

Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43

Yttbrium

Characterization of ceramic-metal composite hydrogen separation membranes consisting of barium oxide, cerium oxide, yttrium oxide and palladium, R.V. Siriwardane, J.A. Poston Jr., E.P. Fisher, T.H. Lee, S.E. Dorris and U. Balachandran 217 (2003) 43

Zinc

Properties of annealed anodically etched porous Zn studied by scanning tunneling microscopy, S.-S. Chang, S. Kurokawa and A. Sakai 217 (2003) 50

Substrate temperature dependence of the properties of ZAO thin films deposited by mag-

netron sputtering, E.-G. Fu, D.-M. Zhuang, G. Zhang, W.-F. Yang and M. Zhao 217 (2003) 88
In situ TM-AFM investigations of the influence of zinc and tin as alloy constituents of copper to the early stages of corrosion, Ch. Kleber and M. Schreiner 217 (2003) 294

Zirconium

Laser assisted surface microstructuring of Me/ZrO_2 bilayered thin film system, K. Starbova, E. Krumov, M. Radoeva, N. Starbov, D. Popov, G. Schlaghecken and E.W. Kreutz 217 (2003) 118